

Listing of Claims

This listing of claims will replace all prior versions of claims and listings of claims in the application:

1. (Currently Amended) A monitoring system for distributed utilities, the monitoring system comprising:

a. a water purification generation device for converting ~~[[an]]~~ available ~~resource~~ water to a ~~desired utility~~ purified water, the water purification generation device characterized by a plurality of operating parameters;

b. an input sensor for measuring source water input to the water generation device;

c. an output flow rate sensor for measuring consumption of purified water output from the water purification generation device;

d. a local controller for concatenating measured source water input and consumption of purified water output on the basis of the input and output sensors; and

e. a remote controller for modifying operation of the purified water generation device based on the concatenated measured source water input and consumption of purified water output.

2. (Currently Amended) A monitoring system according to claim 1, further comprising at least one sensor for measuring at least one parameter of the ~~said~~ plurality of operating parameters of the water purification generation device.

3. (Previously Presented) A monitoring system according to claim 2, wherein the at least one sensor is a heat transfer monitor.

4. (Previously Presented) A monitoring system according to claim 2, wherein the at least one sensor is a flow impedance monitor.

5. (Cancelled)

6. (Previously Presented) A monitoring system according to claim 1, wherein the input sensor is a flow rate monitor.

7. (Currently Amended) A monitoring system according to claim 6, wherein the output flow rate sensor includes a water quality sensor including at least one of a turbidity, conductivity, and temperature sensor.

8. (Currently Amended) A monitoring system according to claim 7, further comprising a shut off switch that automatically turns off the said water purification generation device when the said water quality sensor rises above a pre-programmed water quality value.

9. (Currently Amended) A monitoring system according to claim 7, further comprising an alarm that alerts a user when the said water quality value rises above a pre-programmed water quality value.

10. (Original) A monitoring system according to claim 7, further comprising a remotely operable shut off switch.

11. (Cancelled)

12. (Original) A monitoring system according to claim 11, wherein the input sensor includes a fuel consumption rate monitor.

13. (Original) A monitoring system according to claim 11, wherein the output sensor includes an electrical usage meter monitor.

14. (Original) A monitoring system according to claim 1, further comprising a telemetry module for communicating measured input and output parameters to a remote site.

15. (Original) A monitoring system according to claim 14, wherein the telemetry module is a cellular communications system.

16. (Original) A monitoring system according to claim 14, wherein the telemetry module is a wireless system.

17. (Currently Amended) A monitoring system according to claim 1, further including a remote actuator for varying operating parameters of the water purification ~~generator~~ based on remotely received instructions.

18. (Original) A monitoring system according to claim 1, further including a self-locating device having an output indicative of the location of the monitoring system.

19. (Original) A monitoring system according to claim 18, wherein the self-locating device is a global positioning system.

20. (Original) A monitoring system according to claim 18, wherein monitored characteristics of input and output depend upon the location of the monitoring system.

21. (Currently Amended) A method for assembling a monitoring system comprising:

- a. providing a water purification ~~generation~~ device;
- b. coupling an input sensor for measuring source water input to the water purification ~~generation~~ device;
- c. coupling an output sensor for measuring consumption of purified water output from the water purification ~~generation~~ device; and
- d. coupling a local controller to the input and output sensor for concatenating measured source water input and consumption of purified water output on the basis of the input and output sensors; and
- e. providing a remote controller for modifying operation of the water purification ~~generation~~ device based on the concatenated measured input and consumption of output.

22. (Currently Amended) The method of claim 21, further comprising:

a. providing communication between a telemetry module and the said controller;
and

b. providing communication between the said telemetry module and a
monitoring station.

23. (Currently Amended) A distributed network of utilities, ~~including at least one of
a source of purified water and a source of electrical power, the distributed network comprising:~~

a. at least one water purification generators device for converting a resource
source water into a useful utility to purified water;

b. input sensors for measuring inputs to the respective generators at least one
water purification device;

c. output sensors for measuring consumption of output from the respective
generators at least one water purification device, wherein the each generator at least one water
purification device has a local controller that concatenates the measured input and consumption
of output from the respective generators at least one water purification device;

d. a telemetry transmitter for transmitting input and output parameters of a the
specified generator at least one water purification device; and

e. a remote controller for receiving the concatenated input and consumption of
output from the at least one a plurality of utility generators water purification device and
modifying operation of the generators at least one water purification device based on the
concatenated input and consumption of output.

24. (Withdrawn) A method for providing distributed utilities, the method comprising:

- a. providing a generator to a user;
- b. monitoring at least one index of generator usage to supply a utility; and
- c. charging the user on the basis of the index of generator usage.